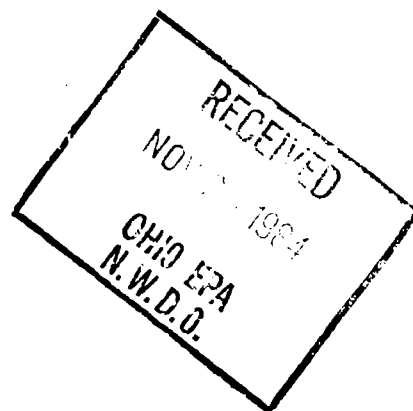




# **CITY OF WAUSEON , OHIO**

## **INDUSTRIAL PRETREATMENT PROGRA**



**AUGUST, 1984**

**PREPARED BY:**  
**FINKBEINER, PETTIS & STROUT, LIMITED**  
**CONSULTING ENGINEERS**  
**TOLEDO** **AKRON**

# WAUSEON, OHIO

## INDUSTRIAL WASTE QUESTIONNAIRE

(One Questionnaire Required Per Facility)

Note: If you are not connected to the Wauseon Sanitary Sewer System, complete Section A, Section E - Item 3C, and Section G - Item 1.

### SECTION A. GENERAL INFORMATION

- Company Name FULTON INDUSTRIES INC.
- Mailing Address 135 E LINCOLN
- Facility Address WAUSEON OHIO 43567
- Provide name of person who completed this questionnaire.  
Name R.H. MacLEOD Title VP Phone 335-3015
- Provide name of person to contact on information contained in this questionnaire.  
Name U Title " Phone "
- The information contained in this questionnaire is familiar to me and to the best of my knowledge and belief, such information is true, complete and accurate.  
Date 9/28/81 Signature of Official [Signature]

### SECTION B. PRODUCT OR SERVICE INFORMATION

- Brief description of manufacturing or service activity at this facility.  
Manufacture, Plate, and Assemble Flashlights & Metal Parts
- Enter the following information regarding your business activities.  

SIC No.	Process Description	Production Volume	Quality Characteristics	Production Waste
3415 - 364P	Stampings & Flashlights			None
3421	Plating			Treated
- Production Information
  - List Products: Flashlights Stampings
  - List Raw Materials: Steel, Metals, Plastics & purchased components
  - List By-Products: Scrap
  - List Any Catalysts: \_\_\_\_\_

### SECTION C. FACILITY OPERATIONAL CHARACTERISTICS

- Major operations or activities are X batch \_\_\_\_\_ and/or continuous
- Do scheduled shut-downs occur? Yes X No \_\_\_\_\_
  - If yes, list time period. July 1981 3 days
- Is production seasonal? Yes X No \_\_\_\_\_
  - If yes, indicate periods of maximum production and products. October thru Feb
- Circle days per week of operation. 4 (5) 6 7 Other Specify \_\_\_\_\_
- Circle hours per day of operation. 8 10 (16) 24 Other Specify \_\_\_\_\_
- Shift Information

	1st	2nd	3rd
Starting Time	7:00	3:30	12:00
# Employees Per Shift	164	16	5
Total Of All Employees	185		

7. a.) Are expansion plans scheduled within the next 3 years? Yes ☐ No ☒  
 b.) If yes, check the appropriate type of expansion.  
       New Products ☐ Same Products-Additional Capacity ☐  
       New Facility ☐ Expand Current Facility ☐  
       Relocate within ☐ outside ☐ sewer service area ☐

#### SECTION D. WATER USE INFORMATION

1. Enter water use information below.

Municipal Source (CITY)	Customer Account Number	1980 Water Usage	Daily Average Gal/Day
		Total Usage for 1980, Ccf*	
WAUSEN	15-1550	2707 ccf	90,000
	15-1540	29325 ccf	
	15-1570-1	301 ccf	
	15-0270-0	812 ccf	

\*Ccf = Hundreds of Cubic Feet

2. a.) Are other sources of water used (well, river, etc.)? Yes ☐ No ☒  
 b.) If yes, list source and usage: Source  Usage  Gal/Day   
 3. a.) Does usage vary widely during the production day? Yes ☒ No ☐  
 b.) If yes, indicate the periods of maximum use. 7:00am thru 10:00pm  
 4. List water use and discharge information:

Check Appropriate Boxes

TYPE OF USE	Use		Discharge		
	Yes	No	Sewer	Other	None
cooling water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
boiler feed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
process water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
contained in product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
sanitary system	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
other (specify below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

5. a.) Are corrosion or biological inhibiting chemicals added to facility water systems which are discharged to the sewer? Yes ☐ No ☒  
 b.) If yes, list chemicals.   
 6. a.) Are raw water treatment processes employed? Yes ☒ No ☐  
 b.) If yes, list process(es) and method of residue disposal: Treatment  
 Plant - land fill residue

#### SECTION E. WASTEWATER INFORMATION

1. a.) Sewer bill is based on ☒ Metered Water Use ☐ Sewage Meter  
 b.) If a sewage meter is employed, list manufacturer and type:   
 2. What is the wastewater flow? 90,000 gal avg. daily ☐ peak ☐  
 3. Is sanitary waste discharged separately from process waste? Yes ☒ No ☐  
 4. a.) Are all of your liquid wastes discharged to the sanitary sewer system? Yes ☒ No ☐  
 b.) If no, describe any other liquid disposal method(s).   
 c.) If a National Pollutant Discharge Elimination System (NPDES) Permit has been issued for this facility list permit number: 04D 09481 0736

5. a.) Are batch wastes discharged to sewer? Yes ☐ No ☒  
 b.) If yes, list batch discharge frequency, nature of waste, and volume:  
 Frequency (specify units): \_\_\_\_\_ Volume: \_\_\_\_\_ Gal. \_\_\_\_\_  
 Nature of Material: \_\_\_\_\_
6. a.) Is an analysis of the wastewater available? Yes ☒ No ☐  
 b.) If yes, attach a copy and describe sampling location.
7. Is a sampling manhole or other access available to collect a wastewater sample?  
 Yes ☒ No ☐
8. Refer to Tables 1 and 2 to generally characterize your wastewater (Pages 4 and 5).

#### SECTION F. PRETREATMENT

1. a.) Are wastewaters pretreated before discharging to sewer? Yes ☒ No ☐  
 b.) If yes, describe system. Chemtronics Waste Water Treatment System
2. Describe any residue treatment prior to disposal. \_\_\_\_\_
3. Indicate quantity of residue disposed (specify units). 3 cu ft / wk
4. Describe method of residue disposal. land fill
5. Is the residue considered a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA)?  
 Yes ☒ No ☐  
 Undetermined ☐
6. a.) Are air pollution control devices employed? Yes ☐ No ☒  
 b.) If yes, describe devices and method of residue disposal. \_\_\_\_\_
7. Is there an Oil Spill Prevention Control and Countermeasure Plan in effect?  
 Yes ☒ No ☐

#### SECTION G. SEWER CONNECTION AND DISCHARGE INFORMATION

1. a.) Is facility connected to the sewer system? Yes ☒ No ☐  
 b.) If no, are there plans to connect to the system? Yes ☐ No ☐  
 c.) If (b) is yes, indicate when, complete Section "A", and return this questionnaire. 1989  
 d.) If (a) and (b) are marked No, described method of wastewater disposal, complete Section "A", and return this questionnaire.
2. a.) Does facility have more than one sanitary sewer connection? Yes ☒ No ☐  
 b.) If yes, attach a simple drawing which shows sewer locations with respect to property lines, streets, and alleys. Show locations of service connections and any inspection manholes and sampling chambers. Assign a number to each sewer, and provide the required information below.

SEWER NO.	SIZE, IN.	FLOW, GAL/DAY	TYPE OF WASTE CONVEYED
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

If you need assistance, call Mrs. Linda S. Benham of Finkbeiner, Pettis & Strout, Limited (419) 473-1121.

PLEASE RETURN COMPLETED QUESTIONNAIRE WITHIN 30 DAYS AFTER RECEIPT IN THE ENCLOSED POSTAGE PAID ENVELOPE.

YOUR TIME AND ASSISTANCE IS APPRECIATED.

TABLE 1

GENERAL WASTEWATER CHARACTERISTICS

Check the box(es) which indicate substances contained in your wastewater.

- |   |  |
|---|--|
| <input type="checkbox"/> 1. acids and acidic wastes                     | <input type="checkbox"/> 15. phenol containing wastes        |
| <input type="checkbox"/> 2. alkali and caustic wastes                   | <input type="checkbox"/> 16. alcohols                        |
| <input type="checkbox"/> 3. pickling wastes                             | <input type="checkbox"/> 17. ethers                          |
| <input type="checkbox"/> 4. other metal cleaning and preparation wastes | <input type="checkbox"/> 18. aldehydes, ketones              |
| <input type="checkbox"/> 5. plating wastes                              | <input type="checkbox"/> 19. organic acids                   |
| <input type="checkbox"/> 6. electrocoating wastes                       | <input type="checkbox"/> 20. soaps, surfactants, detergents  |
| <input type="checkbox"/> 7. paints                                      | <input type="checkbox"/> 21. oils                            |
| <input type="checkbox"/> 8. pigments                                    | <input type="checkbox"/> 22. fats, grease                    |
| <input type="checkbox"/> 9. inks  | <input type="checkbox"/> 23. benzene and benzene derivatives |
| <input type="checkbox"/> 10. dyes, coloring agents                      | <input type="checkbox"/> 24. chlorinated organic compounds   |
| <input type="checkbox"/> 11. organic solvents, thinners                 | <input type="checkbox"/> 25. brominated organic compounds    |
| <input type="checkbox"/> 12. latex wastes                               | <input type="checkbox"/> 26. hot wastes                      |
| <input type="checkbox"/> 13. resins, monomers                           | <input type="checkbox"/> 27. radioactive wastes              |
| <input type="checkbox"/> 14. waxes                                      | <input type="checkbox"/> 28. SANITARY WASTES ONLY            |

# THE ARO CORPORATION

ONE ARO CENTER, BRYAN, OHIO 43506



TELEPHONE 636-4242  
AREA CODE 419  
TWX 810-443-2994

## CERTIFICATE OF TEST

ulton Industries, Inc.

35 E. Linfoot St.

auseon, Ohio 43567

Attention: D. Wolf

All units (except pH) measured in mg/l unless otherwise indicated.

All tests performed with latest revisions of Standard Methods or EPA Guidelines.

ate	9/10/81						
	9.15						
phosphate	-						
yanide (total)	0.058						
opper	0.293						
on	-						
admium	0.093						
ickel	0.820						
mc	0.195						
ad	0.340						
chromium (total)	0.280						
Total Metals	-						
Suspended Solids	1.0						

We certify the above to be the results on the above designated sample as received.

This report may not be used or reproduced wholly or in part for your advertising or promotional purposes without our authorization in writing.

Chemical-Mechanical-Metallurgical  
Testing Laboratory Division

Tested by D.A. Callicott

Approved by D.J. Himes

# THE ARO CORPORATION

ONE ARO CENTER, BRYAN, OHIO 43506



TELEPHONE 636-4242  
AREA CODE 419  
TWX 810-443-2994

## CERTIFICATE OF TEST

Ion Industries, Inc.  
5 East Linfoot Street  
useon, OH 43567

All units (except pH) measured in  
mg/l unless otherwise indicated.

All tests performed with latest revisions of Standard Methods or EPA Guidelines.

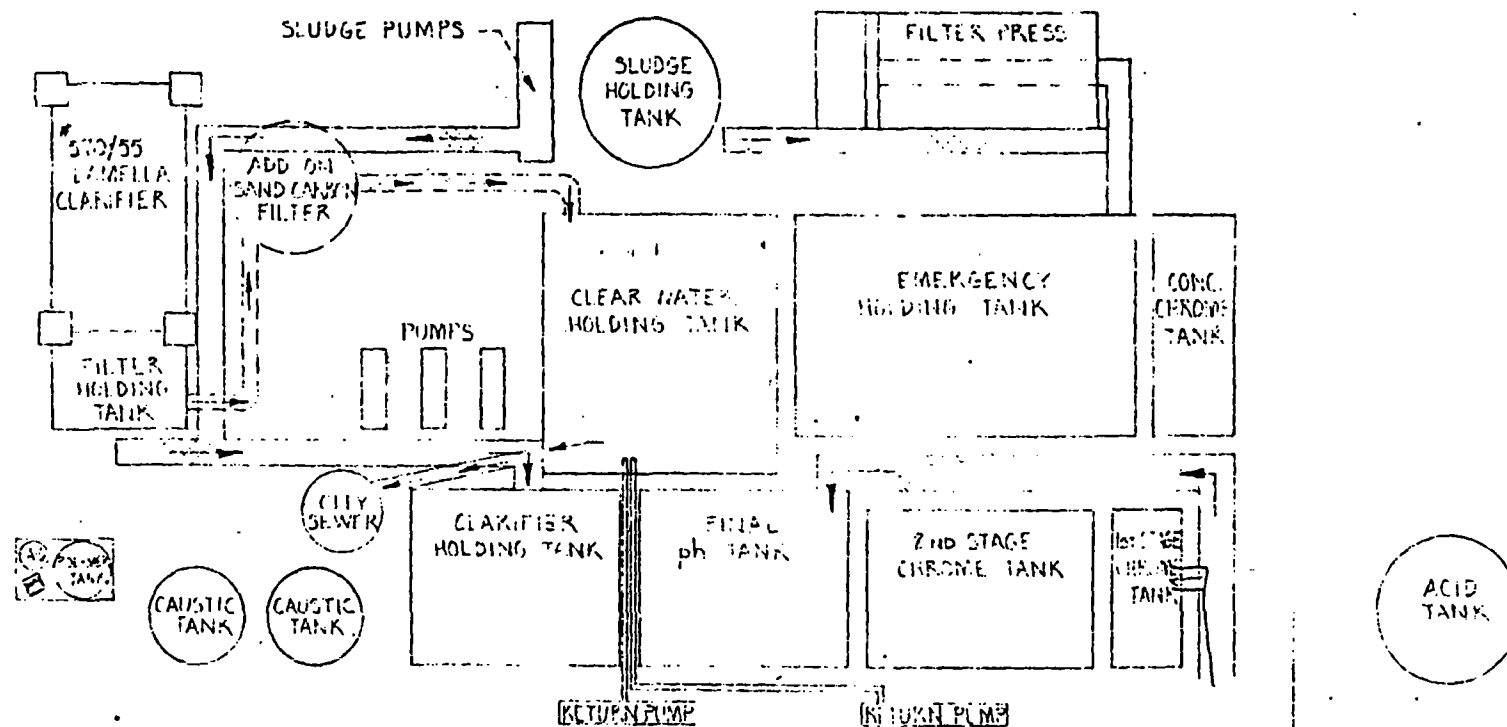
ate	10-22-82						
osphate	--						
yanide (total)	0.321						
opper	1.85						
ron	--						
adnium	0.014						
ickel	1.558						
Zinc	0.301						
Lead	0.09						
Chromium (total)	1.487						
Total Metals							
Suspended Solids	6.3						

We certify the above to be the results  
on the above designated sample as  
received.

Chemical-Mechanical-Metallurgical  
Testing Laboratory Division

Tested by WJ T

This report may not be used or  
reproduced wholly or in part for your  
advertising or promotional purposes





FULTON INDUSTRIES, INC.

Visited November 22, 1982 met with Daryl Foaty

Water usage for 1980 was 90,000 gpd. For 1981 usage was 138,792 gpd.

All process water goes to the pretreatment plant. All sanitary lines are tapped in between pretreatment and City sanitary sewer. Could there be a problem of process water entering sanitary lines.

Pretreatment Plant Operations:

Process water enters pH adjustment tank,  $H_2SO_4$  is added to pH of 2.0. Flow enters final pH tank where caustic soda is added to pH of 8.0 to 9.0. Water is then pumped to clarifier. Effluent of clarifier passes through sand carbon filter then clear well to sewer. Sludge from clarifier is pumped to belt filter press. The dried sludge is then removed by Fondessy Enterprises Inc. an EPA approved Landfill, RCRA ID NO OHD 045243706. Oregon, Ohio

There is an Emergency holding tank in case of spills from the manufacturing plant it is located at the pretreatment facility.



In Wauseon it has been determined that four industries must be regulated. The first industry, Sheller Globe, has two separate plant locations in the City. Plant No. 1 is on Walnut Street where metal sheets are stamped into file card boxes. At Plant No. 2 on Chestnut Street, these metal boxes are painted. Neither plant is affected by current promulgated Categorical Standards.

Fulton Industries manufactures flashlight housings which consists of stamping, plating and assembling the housings. Fulton Industries should be considered as an electroplating facility. Current promulgated U.S. EPA Effluent Guidelines and Standards for this industry are included under Electroplating, Subpart E - Coatings Subcategory. These Standards and Guidelines appeared in 40 CFR 413; 39 FR 11510, March 28, 1974; Amended as shown in Code of Federal Regulations, Volume 40, Revised as of July 1, 1982; Amended by 48 FR 2776, January 21, 1983; 48 FR 32482, July 15, 1983; 48 FR 41410, September 15, 1983; Corrected by 48 FR 43681, September 26, 1983. Exhibit C includes the U.S. EPA categorical effluent limitations.

Perfection Finishers, Inc., performs vacuum plating and plastics and metals painting. This industry is a Metal Finishing Categorical Industry which is included under the Electroplating Categorical regulations until February 15, 1986. At that time, the Metal Finishing Regulations will take effect. Therefore, at the present time, Perfection Finishers should be included under Electroplating, Subpart E - Coatings Subcategory. The Metal Finishing Standards and Guidelines appeared in 40 CFR 413; 39 FR 11510, March 28, 1974; Amended as shown in Code of Federal Regulations, Volume 40, Revised as of July 1, 1982; Amended by 48 FR 2776, January 21, 1983; 48 FR 32482, July 15, 1983; 48 FR 41410, September 15, 1983; Corrected by 48 FR 43681, September 26, 1983. The Metal Finishing Standards and Guidelines appeared in 40 CFR 433; 48 FR 32485, July 15, 1983; Amended by 48 FR 41410, September 15, 1983; Corrected by 48 FR 43681, September 26, 1983; 48 FR 45105, October 3, 1983. The U.S. EPA categorical effluent limitations for both Electroplating and Metal Finishing are included in Exhibit D.

### Sampling

The initial sampling of all industries occurred on May 1 and May 2, 1984. It was apparent from the sampling results of Fulton Industries that their pretreatment facilities was not in operation on the day of their sampling. So two grab samples were obtained on May 30, 1984 with their pretreatment facilities functioning. These results are shown on the next page and indicate that Fulton Industries should be able to meet the City's industrial limits.



HYDRO RESEARCH SERVICES  
Water Management Division  
Clow Corporation

408 Auburn Avenue  
Pontiac, MI 48058

313 334-1630  
313 334-4747


June 15, 1984

Finkbeiner, Pettis & Strout, Ltd.  
4405 Talmadge Road  
P.O. Box 8807  
Toledo, OH 43623-0807  
Attn: Mr. Richard Engle

Sample Received: 5-31-84

City of Wauseon  
Fulton Industries

Hydro Numbers:	78992	78993
Client I.D.:	5/30/84 10:00 am	5/30/84 2:00 pm
Cadmium, Cd, mg/l	<0.01	0.01
Total Chromium, TCr, mg/l	1.4	3.0
Copper, Cu, mg/l	0.56	0.37
Lead, Pb, mg/l	<0.05	<0.05
Nickel, Ni, mg/l	0.89	0.88
Zinc, Zn, mg/l	3.9	1.1
Total Cyanide, TCN, mg/l	1.4	1.4
Mercury, Hg, mg/l	<0.0005	<0.0005

  
Linda Carey, Manager  
Analytical Services

D. Residual Disposal

The residues disposed of by the significant industries were outlined in the Industrial Waste Survey Report. To reiterate, the only hazardous waste generated by any of the industries is a sludge cake containing heavy metals. Fulton Industries produces this hazardous waste which is handled by Fondessy Enterprises, Inc. The other significant industries produce residues such as paint sludges and "green" sand which are hauled to the sanitary landfill. Industries which have residues disposed of at the sanitary landfill have previously verified to EPA that the residues are non-hazardous.

E. Spill Potential

The spill potential of an industry depends to a great degree whether an Oil Spill Prevention Control and Countermeasure Plan are in effect. The only industry with a Spill Prevention Plan is Fulton Industries. There exists no need for Spill Prevention Plans at Sterling Milk, Wauseon Foundry or German Village Products due to the nature of their processes. However, Globe-Weis, Perfection Finishers and Shellar Globe should currently have Spill Prevention Plans in effect. Each of these industries handles either paint sludges, waste oils, waste solvents or dip tank water which could find access to the City sewer collection system should an accident occur. This matter will be persued further when the City established an industrial monitoring program.

## 2. Sludge Management

The City has prepared a Sludge Management Plan, as requested by the OEPA. This plan contains all pertinent information involving treatment and disposal of sludge generated at the WWTP. A copy of the Sludge Management Plan is located in Exhibit 2 and briefly summarized below.

The City currently anaerobically digests and liquid land applies its sludge. Accumulation of heavy metals such as cadmium and zinc in the sludge severely limit land application rates. Approximately 295 acres on four sites are available for land application of sludge. Sites cannot be guaranteed for a 20 year life. Sludge Management is an ongoing process and it is believed that there will be enough sites available for 20 years.

## 3. Water Quality Review

The major surface water within the City is North Turkeyfoot Creek. The stream segment passing through the City is classified as a Water Quality Limited Stream and a Warm Water Habitat. North Turkeyfoot Creek is not used as a public, industrial or agricultural water supply. Water quality problems are attributed to poor wastewater treatment plant performance. Combined sewer overflow discharges also contribute to the pollution loading.

In addition to the domestic pollution discharges to North Turkeyfoot Creek, industrial pollution also exists. Pass through of heavy metals in concentration exceeding those stated in the NPDES permit occur regularly. On numerous occasions North Turkeyfoot Creek has been "colored" due to the heavy metal loadings. The effect of heavy metal pollution in North Turkeyfoot Creek on aquatic life was demonstrated November 9, 1982 when ODNR reported a fish kill due to industrial pollutants. Based upon the data of Table 2 and the above discussion, there exists a great need to correct the current situation.